

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Ca<sup>2+</sup> imaging by 5-s PS.

File Name: Supplementary Movie 2

Description: cAMP imaging by 30-s PS.

File Name: Supplementary Movie 3

Description: Extracellular NA imaging by 30-s PS.

File Name: Supplementary Movie 4

Description: Simultaneous LC/NA axons and astrocytic Ca<sup>2+</sup> in MP signal.

File Name: Supplementary Movie 5

Description: Simultaneous LC/NA axons and astrocytic Ca<sup>2+</sup> in SP signals.